Data Sheet

We make sure

FUJITSU SIEMENS COMPUTERS

AMILO Notebook Pa 3553
The perfect all-round notebook

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Pages 5

The AMILO Notebook P series combines versatile performance, great technology and fascinating design for an independent lifestyle.

Key Features

Processor technology
■ Latest AMD mobile processor technology

Operating System
■ Windows Vista® Home Premium

Innovation
■ ATI Mobility Radeon™ HD 3470 Hybrid X2 graphics with 256 MB dedicated video RAM for great graphics performance
■ ATI Hybrid CrossFireX™ technology enables the onboard graphics chip and the discrete graphics processor to simultaneously work together to boost 3D graphics performance

Reliability
■ Spill-proof keyboard to protect your notebook form accidentally spilt liquids
   - Enough time to shut down the notebook
   - Remove the liquid from the notebook
   - Protects your investment and your data
■ Engineered in Germany means the test centre in Germany tests conformity to international standards and customer-specific requirements
■ A+ grade LCD panels for better picture quality

Mobility
■ Standard 15.4-inch form-factor that fits in almost every bag
■ Integrated n-draft Wireless LAN to go online when and wherever you want

Entertainment and multimedia
■ The integrated AMILOcam with low-light technology for great video-quality even in low-light conditions and the built-in digital array microphone are perfect for Internet telephony (VoIP) and video chats
■ LCD WXGA display with BrilliantView technology for vivid colours, amazing sharpness and impressive contrast
■ Enjoy your favourite Hollywood blockbuster on an external display via HDMI (with HDCP support)

More convenience thanks to
■ the silent mode function to reduce the fan noise
■ the built-in DVD drive to store and secure data comfortably on the move

Fujitsu Siemens Computers recommends Windows Vista® Home Premium

Operating system[1] and Recovery

Operating system	Genuine Windows Vista® Home Premium (32-bit version)
Recovery	Fujitsu Siemens Computers Recovery Program
	Backup and restore the original status of the hard disk and create system restore disks

Architecture

System architecture	-
Chipset	AMD 780G + SB700

Processors[1]

AMD Turion™ X2 Ultra processor	ZM-80 (2.1 GHz, 2 MB L2 cache)
	ZM-82 (2.2 GHz, 2 MB L2 cache)
	ZM-84 (2.3 GHz, 2 MB L2 cache)
	ZM-86 (2.4 GHz, 2 MB L2 cache)
AMD Turion™ X2 Dual-Core processor	RM-70 (2.0 GHz, 1 MB L2 cache)
	RM-72 (2.1 GHz, 1 MB L2 cache)
AMD Athlon™ X2 Dual-Core processor	QL-60 (1.9 GHz, 1 MB L2 cache)
	QL-62 (2.0 GHz, 1 MB L2 cache)
AMD Sempron™ processor	SI-40 (2.0 GHz, 512 KB L2 cache)
	SI-42 (2.1 GHz, 512 KB L2 cache)

Memory

Memory	2 SO-DIMM memory slots (no memory on board)
Memory speed	800 MHz
Memory type	DDR 2 RAM
Memory modules	1024 or 2048 MB
Max. memory size[1, 2]	4096 MB

Drives

Hard disk drive

HDD type	SATA
HDD size	2.5-inch
HDD speed	5400 rpm
HDD cache	8 MB
HDD capacity[1]	160, 250 or 320 GB

Optical disc drive[1] (built-in)

ODD type	SATA
ODD technology	SuperMulti-format DVD burner with dual double layer (DL) support
ODD read speed	CD-ROM 24x, DVD-ROM 8x
ODD write speed	CD-R 24x, CD-RW 16x, DVD+R 8x, DVD-R 8x, DVD+RW 8x, DVD-RW 6x, DVD+R DL (8.5 GB) 4x, DVD-R DL (8.5 GB) 4x, DVD-RAM 5x

Option[1]:

ODD technology	Built-in Blu-ray Disc™ drive incl. SuperMulti-format DVD burner with dual double layer (DL) support
ODD read speed	BD 1.6x, CD-ROM 24x, DVD-ROM 8x
ODD write speed	CD-R 8x, CD-RW 8x, DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 4x, DVD+R DL (8.5 GB) 2.4x, DVD-R DL (8.5 GB) 2x, DVD RAM 5x

Display

Display type	BrilliantView LCD
Display size	15.4-inch
Display resolution (intern)	1280 x 800 pixels
Display resolution (extern)	1920 x 1200
Resolution type	WXGA
Reaction time	16 ms
Brightness (typ.)	200 cd/m^2
Contrast (typ.)	400 : 1
Compliance with standards	ISO 13406-2 class II

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Graphics	
Dedicated graphics (full name)	ATI Mobility Radeon™ HD 3470 Hybrid X2 graphics
Dedicated video memory	256 MB GDDR2
Onboard graphics chip	ATI Radeon™ HD 3200
Shared video memory[3]	Shared memory[3] up to 1920 MB supported by HyperMemory™ technology
3D Benchmark 2006	2412 points
Graphic features	■ ATI Hybrid CrossFireX™ technology ■ DirectX® 10 support

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Interfaces	
Video	1x HDMI, 1x VGA
Audio	1x line in, 1x microphone in, 1x line out / headphone out combined with S/PDIF out
Network	1x LAN (RJ-45),

Data	1x eSATA combined with USB 2.0, 2x USB 2.0, 1x IEEE1394
	1x ExpressCard slot (54 / 34 mm)
	1x 15-in-1 card reader[4]
	    SD, miniSD, MicroSD, SDHC
	    MS, MS-Duo
	    MMC, RS-MMC, MMC-Micro
	    MSPRO, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo M2
	    xD picture card

Power supply	1x DC-in

Communication	
LAN (Local Area Network)	10 / 100 / 1000 Mbps
Built-in WLAN (Wireless Local Area Network)	Yes
WLAN type	pre-n 802.11b/g/n
WLAN max. data rate	up to 300 Mbps
WLAN encryption	WEP, WPA and WPA2
For use in	BE, CH, DK, DE, EE, FI, FR, EL, IE, IS, IT, LI, LV, LT, LU, MT, NL, NO, PL, AT, PT, SE, SK, ES, CZ, HU, UK, CY

Multimedia	
Audio	Support of HD audio for S/PDIF output with up to 7.1 channels
Audio chip	Realtek ALC888
Speakers	2x built-in speakers (1.5 W each)
Microphone	Built-in digital array microphone
Subwoofer	-
Input device	Sound volume control via function key
AMILOcam	
Image sensor	VGA webcam
Frames per second	30[5]
Features	■ Auto focus ■ Automatic brightness adjustment with status LED (blue: on, red: streaming / application on) ■ Low-light technology for great video-quality even in low-light conditions

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Input devices / Control buttons	
Power button	Located left of the keyboard, back-lit
Keyboard	Spill-proof keyboard with 85 keys
Touchpad	Hidden touchpad, with left and right mouse button, touchpad disable function via function key combination (Fn+F6)
Multimedia keys	Located on top of the keyboard to launch the following applications: ■ Silent mode (reduce noise level / fan speed, by reducing the CPU performance, office applications, Internet and DVD playback are not affected) ■ DVD playback ■ Internet browser

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Hot keys	The following hot keys or key combinations are available
	■ Fn+F1 WLAN on / off
	■ Fn+F3 Mute on / off
	■ Fn+F4 Volume down
	■ Fn+F5 Volume up
	■ Fn+F6 Touchpad on / off
	■ Fn+F7 AMILOcam on / off
	■ Fn+F8 Brightness down
	■ Fn+F9 Brightness up
	■ Fn+F10 Display switch
	■ Fn+F11 Silent mode
	■ Fn+F12 Suspend

Status indicators	The notebook has 3 status LEDs:
	■ Power status (& suspend)
	Blue (always on): on; Blue blinking: stand by, None: off
	■ Battery charge
	Blue (always on): full, Blue blinking: charging;
	Red blinking: < 10 % capacity
	■ WLAN
	Blue: on; None: off

Security	
Supervisor and user password	Yes
Kensington lock	Yes
Lid switch (hidden)	Yes

ACPI functions	ACPI 3.0 compliant for Vista requirement
	■ S1 LCD off
	■ S3 save to RAM
	■ S4 save to disk
	■ S5 soft off
	■ Silent Mode

Power System	
Battery[6]	
Battery type[1]	Lithium-Ion battery
	6 cells, 11.1 V / 2200 mAh (cell) / 4400 mAh (pack) or
	8 cells, 14.8 V / 2400 mAh (cell) / 4800 mAh (pack)[1]
Battery runtime[7]	Up to 2:50 hours (8-cell battery); n/A (6-cell battery)
Battery runtime (DVD playback)[8]	Up to 1:55 hours (8-cell battery); n/A (6-cell battery)
Battery charging time (idle mode)	Up to 1:30 hours (8-cell battery); n/A (6-cell battery)
Battery charging time (maximum active mode)[9]	Up to 2:40 hours (8-cell battery); n/A (6-cell battery)
Battery charging time (normal use)[10]	Up to 1:50 hours (8-cell battery); n/A (6-cell battery)
Battery charging time (off mode)	Up to 1:45 hours (8-cell battery); n/A (6-cell battery)
AC Adapter	Dynamic charge supported, ACPI 2.0 supported
Wide Range AC adapter	110 - 240 V AC, 50 - 60 Hz
Output	90 W with 20 V DC, 4.5 A
Energy consumption	
S0 (idle mode)	21.71 W
S0 (max. active mode)[11]	42.69 W
S3 (stand by / energy saving mode)	0.41 W
S4 (hibernate)	0.01 W
S5 (off mode)	0.01 W
Noise emission	
Idle mode[12]	26.6 dB
Maximum active mode[13]	33 dB
Operating conditions	
Operational	5 ℃ to 35 ℃ (ambient temperature)
	10 % to 90 % relative humidity, non-condensing
AC input	100 - 240 V, 50 - 60 Hz

Dimensions and weight	
W x D x H	358 x 259 x 37.5 (front) / 43.5 (back) mm
Weight	2.95 kg[14]

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Certifications	GOST (WLAN) - to be confirmed
	CE Marking
	R&TTE (WLAN)

Warranty	1 year collect and return

Operational Software

Home office	Microsoft® Works
	Adobe Reader
	Windows Mail (within Vista operating system)
	Windows Calendar (within Vista operating system)
Multimedia	Nero 8 Essentials S (CD / DVD write software)
	Vista DVD Playback Pack (DVD playback software)
	Windows Media Player (within Vista operating system)
	Windows Media Center (within Windows Vista® Home Premium operating system)
	Optional[1]
	CyberLink Power DVD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive)
Internet	Microsoft® Internet Explorer
	Country specific Internet provider
Security	Norman Anti-Virus software

Accessories

Included	AC adapter 90 W
	First Battery (6 or 8 cells battery)
Manuals	Manual (on hard disk), quick start guide, safety guide, warranty guide, recovery guide
Drivers	Updates downloadable at http://www.fujitsu-siemens.com

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[1] Depends on exact configuration. Please check at your local retailer
[2] DISCLAIMER: Up to 1 GB may not be available with 32-bit operating systems due to system resource requirements if system is preinstalled with 4096 MB RAM.
[3] Shared video memory size may vary depending on configuration. Used video memory size depends on Microsoft® Windows Vista® memory management.
- 1024 MB system memory enables up to 384 MB total video memory (dedicated plus shared memory).
- 2048 MB system memory enables up to 896 MB total video memory (dedicated plus shared memory).
- 3072 MB system memory enables up to 1408 MB total video memory (dedicated plus shared memory).
- 4096 MB system memory enables up to 1920 MB total video memory (dedicated plus shared memory).
[4] An adapter is needed for the following card formats: RS-MMC, MMC-Micro, miniSD, MicroSD, SCHC, MS-Duo, MS-PRO Duo, MS-Pro HG, MS-Pro HG Duo, M2
[5] AMILOcam frame rate can vary significantly depending on the used software application.
[6] DISCLAIMER: Battery life may vary depending on product model, configuration, applications, power management settings and features used. Recharge time varies depending on usage. The recharge capacity may decrease after some moths so that the battery lifetime as well as the operating time can not be guaranteed for the whole lifetime of the notebook.
[7] Tested with Battery Mark 4.0.1 ("power saver mode")
[8] DVD playback tested with Vista DVD playback
[9] Tested with 3DMark 2003
[10] DVD playback tested with Vista DVD playback
[11] Tested with 3DMark 2006
[12] Tested with QAFE 8.01, sieve.exe and diskload.exe according to ISO 7779 and ISO 9296
[13] Tested with QAFE 8.01, sieve.exe and diskload.exe according to ISO 7779 and ISO 9296
[14] Weight may vary depending on actual configuration.

The configuration described in this document is generic and non-binding. For the exact configuration of your AMILO, please contact your reseller.

Company stamp